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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/897,765	07/02/2001	Sergei Nikolaevich Kryukov	1202.021US1	8208
43581	7590 12/29/2004	EXAMINER		
ALPINE LAW GROUP, LLC 9249 S. BROADWAY BLVD			KASSA, YOSEF	
UNIT 200-201 HIGHLANDS RANCH, CO 80129			ART UNIT	PAPER NUMBER
			2625	

DATE MAILED: 12/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Antique C	09/897,765	KRYUKOV ET AL.			
Office Action Summary	Examiner	Art Unit			
•	YOSEF KASSA	2625			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing data of this communication.			
Status					
1) Responsive to communication(s) filed on 19 August 2004.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-29</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-29</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner					
10)⊠ The drawing(s) filed on <u>07 February 2001</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) ☐ Acknowledgment is made of a claim for foreign p a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119(a)-	(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau	(PCT Rule 17.2(a)).				
* See the attached detailed Office action for a list of the certified copies not received.					
Attacher (/-)					
Attachment(s) 1) Notice of References Cited (PTO-892)	[7]				
Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pat				
Palent and Trademark Of	6)				

Response to Arguments

1. Applicant's arguments, (page 7-13) filed on Aug. 19, 2004, with respect to claims 1-23 under Faurhurst (U.S. Patent 5,097,322) in view of Strolle et al (U.S. patent 6,246,827) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Chang et al (U.S. Patent 6,728,414).

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Fairhurst (U.S. Patent 5,097,322), and further in view of Chang et al (U.S. Patent 6,728,414).

With regard to claim 1, Fairhurst discloses determining block boundaries (see Fig. 7a-7c); determining an approximate metric of artifact visibility (see col. 4, lines 40-43); adaptively filtering luminance (see col. 4, lines 46-49); adaptively adjusting, i.e., adaptively compensation, local saturation variation (see col. 4, lines 50-54); wherein the adaptive steps are executed to a degree or an amount dependent on the metric of artifact severity (see col. 4, lines 49-56).

Application/Control Number: 09/897,765

Art Unit: 2625

Fairhurst does not explicitly call for a block transform encoding, and adaptively simulating high spatial frequency image detail. However, in the same field of endeavor, Smith et al teaches this feature (see abstract and also see col. 3, lines 1-8). It would have been obvious to incorporate the teaching of Smith block transform compression system into Fairhurst system. The motivation for doing so is to provide reducing a block artifacts created by block transform compression algorithms.

With regard to claim 2, Fairhurst discloses prior to adaptively filtering luminance, luminance values are interpolated, i.e., signal applied, across block boundaries (see col. 4, lines 40-47).

With regard to claim 3, Fairhurst discloses in conjunction with adaptively filtering luminance, chrominance is adaptively filtered (see col. 5, lines 1-12).

Claims 4, 7, 8, 12-14 are similarly analyzed as claim 3.

Claims 5 and 9 are similarly analyzed as claim 1.

Claim 6 is similarly analyzed as claim 2.

Claims 11-14 are similarly analyzed as claims 2-4.

With regard to claims 18-23, Fairhurst discloses computer having software and hardware therein that is capable of executing (see fig. 10, that is signal computing process).

With regard to claim 10, Fairhurst discloses reducing artifacts in an image previously processed (see col. 4, lines 40-46), comprising the steps sharpening of existing detail and simulating missing detail by the addition of noise (see col. 6, lines 39-50).

Application/Control Number: 09/897,765

Art Unit: 2625

Fairhurst does not explicitly call for a block transform encoding. However, in the same field of endeavor, Smith et al teaches this feature (see abstract). It would have been obvious to incorporate the teaching of Smith block transform compression system into Fairhurst system. The motivation for doing so is to provide reducing a block artifacts created by block transform compression algorithms.

With regard to claim 15, Fairhurst discloses reducing artifacts in an image previously processed comprising the step of selecting a median filter window based on an assessment of a pixel value according to a variance of a binary mask, i.e., weighted pixel value, (see col. 3, lines 23-34).

With regard to claim 16, Fairhurst discloses the pixel value comprises luminance texture (see col. 3, lines 50-56).

Fairhurst does not explicitly call for a block transform encoding. However, in the same field of endeavor, Smith et al teaches this feature (see abstract). It would have been obvious to incorporate the teaching of Smith block transform compression system into Fairhurst system. The motivation for doing so is to provide reducing a block artifacts created by block transform compression algorithms.

Claim 17 is similarly analyzed as claim 15.

Claims 24-29 are similarly rejection as 1, 5, 9, 10 and 15. As to additional limitation of a computer program storage medium readable by a computer system and encoding a computer program for executing a computer process. This feature taught by Smith (see col. 6, lines 25-34). It would have been obvious to incorporate the teaching of Smith's

Application/Control Number: 09/897,765

Art Unit: 2625

software féature and storage system into Fairhurst system. The motivation for doing so is to provide a computer program storage medium readable by a computer system.

Other Prior Art Cited

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

US Patent No. (5,150,432) to Ueno et al disclose apparatus for encoding/decoding video signals to improve quality of specific region.

US Patent No. (6,115,503) to Kaup disclose method and apparatus of reducing coding artifacts of ...

US Patent No. (6,539,060) to Lee et al discloses image data post-processing method for reducing ...

US Patent No. (6,728,414) to Chang et al disclose deblocking method and apparatus.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to YOSEF KASSA whose telephone number is (703) 306-5918. The examiner can normally be reached on Monday-Thursday from 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, BHAVESH MEHTA can be reached on (703) 308-5246. The fax phone numbers for the organization where this application or proceeding is assigned is (703)

Art Unit: 2625

872-9306 for regular communication and (703) 872-9306 for after Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the customer service office whose telephone number is (703) 306-5631. The group receptionist number for TC 2600 is (703) 305-4700.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PATENT EXAMINER

Yosef Kassa

12/22/04.